

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

April 16, 1991  
New York, New York

Honorable Commissioner of  
Patents and Trademarks  
Washington, D.C. 20231

Attn.: Assignment Branch

**REQUEST FOR RECORDATION  
OF BLANKET ASSIGNMENT**

Sir:

Enclosed herewith please find an original blanket Assignment dated April 4, 1991 between Enzo Biochem, Inc. and Enzo Diagnostics, Inc. This document is being submitted pursuant to 37 CFR 1.331 for recording in the Assignment Division of the Patent and Trademark Office. Please record this document and return the recorded document to the undersigned.

The Patent and Trademark Office is hereby authorized to charge Deposit Account No. 05-1135 for the recordation fee in the amount of \$8.00. The Patent and Trademark Office is also hereby authorized to charge Deposit Account No. 05-1135 for any additional fees required in connection herewith and to credit any overpayment therein.

EXPRESS MAIL CERTIFICATE	
"Express Mail" Label No.	FB 283463026
Deposit Date	April 16, 1991
I hereby certify that this paper and the attachments herein are being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 on the date indicated above and is addressed to the Commissioner of Patents and Trademarks, Washington DC 20231.	
<i>Elaine P. Brenner</i> Elaine P. Brenner Reg. No. 29,517	<i>4/16/91</i> Date

Enzo Diagnostics, Inc.  
40 Oak Drive  
Syosset, NY 11791  
(212) 924-5409 or 9578

Respectfully submitted,

*Elaine P. Brenner*

Elaine P. Brenner  
Registration No. 29,517

EXPRESS MAIL CERTIFICATE	
"Express Mail" Label No.	GB743016175
Deposit Date	APRIL 9, 1993
I hereby certify that this paper and the attachments herein are being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 on the date indicated above and is addressed to the Commissioner of Patents and Trademarks, Washington DC 20231.	
<i>Ronald C. Fedus</i> Ronald C. Fedus Reg. No. 32,567	<i>APRIL 9, 1993</i> Date

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

April 16, 1991  
New York, New York

Honorable Commissioner of  
Patents and Trademarks  
Washington, D.C. 20231

Attn.: Assignment Branch

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<i>Elaine P. Brenner</i> Elaine P. Brenner Reg. No. 29,517	<i>4/16/91</i> Date

Respectfully submitted,

*Elaine P. Brenner*

Elaine P. Brenner  
Registration No. 29,517

Enzo Diagnostics, Inc.

40 Oak Drive  
Syosset, NY 11791  
(212) 924-5409 or 9578

## ASSIGNMENT

In consideration for One Dollar (\$1.00) and other good and valuable consideration, the receipt of which is hereby acknowledged, Elazar Rabbani, the undersigned, on behalf of Enzo Biochem, Inc., the assignor hereunder, a corporation of the State of New York, having a place of business at 345 Hudson Street, New York, New York 10014;

Hereby sells, assigns and transfers to: Enzo Diagnostics, Inc., a corporation of the State of New York, having a place of business at 40 Oak Drive, Syosset, NY 11791, its successors, assigns and legal representatives, the entire right, title and interest for the United States and all foreign countries, in and to any and all improvements which are disclosed in the following applications for Letters Patent:

Serial No.: 140,980  
Title: "Modified Nucleotides, Methods of Preparing and Utilizing and Compositions Containing The Same"  
Inventors: Dean Engelhardt, et al.  
Filing Date: January 5, 1988  
(Doc. No.: Enz-5(C)2)

Serial No.: 539,279  
Title: "Modified Nucleotides, Methods of Preparing and Utilizing and Compositions Containing The Same"  
Inventors: Dean Engelhardt, et al.  
Filing Date: June 15, 1990  
Doc. No.: Enz-5(Div. 2)(C))

Serial No.: 520,682  
Title: "Modified Nucleotides, Methods of Preparing and Utilizing and Compositions Containing The Same"  
Inventors: Dean Engelhardt, et al.  
Filing Date: May 8, 1990  
(Doc. No.: Enz-5(Div. 3))

Serial No.: 532,704  
Title: "Modified Nucleotides, Methods of Preparing and Utilizing and Compositions Containing The Same"  
Inventors: Dean Engelhardt, et al.  
Filing Date: June 4, 1990  
(Doc. No.: Enz-5(Div. 4))

Enzo Diagnostics, Inc.

Serial No.: 531,953  
Title: "Modified Nucleotides, Methods of Preparing and Utilizing and Compositions Containing The Same"  
Inventors: Dean Engelhardt, et al.  
Filing Date: June 1, 1990  
(Doc. No.: Enz-5(Div. 5))

Serial No.: 532,461  
Title: "Modified Nucleotides, Methods of Preparing and Utilizing and Compositions Containing The Same"  
Inventors: Dean Engelhardt, et al.  
Filing Date: May 31, 1990  
(Doc. No.: Enz-5(Div. 6))

Serial No.: 567,039  
Title: "Modified Nucleotides, Methods of Preparing and Utilizing and Compositions Containing The Same"  
Inventors: Dean Engelhardt, et al.  
Filing Date: August 13, 1990  
(Doc. No.: Enz-5(Div. 7))

Serial No.: 548,348  
Title: "Modified Nucleotides, Methods of Preparing and Utilizing and Compositions Containing The Same"  
Inventors: Dean Engelhardt, et al.  
Filing Date: July 2, 1990  
(Doc. No.: Enz-5(Div. 8))

Serial No.: 607,347  
Title: "Methods and Structures Employing Chemically Labeled Polynucleotide Probes"  
Inventors: Jannis Stavrianopoulos, et al.  
Filing Date: October 30, 1990  
(Doc. No.: Enz-7(CIP)C2)

Serial No.: 120,205  
Title: "Kit for Terminally Labeling DNA"  
Inventors: Christine Brakel, et al.  
Filing Date: November 5, 1987  
(Doc. No.: Enz-8(C)2)

Serial No.: 607,787  
Title: "Assay Method Utilizing Polynucleotide Sequences"  
Inventors: Robert Pergolizzi, et al.  
Filing Date: October 26, 1990  
(Doc. No.: Enz-11 (C)2)

Enzo Diagnostics, Inc.

Serial No.:	521,762
Title:	"Detectable Molecules, Method of Preparation and Use"
Inventors:	Dean Engelhardt, et al.
Filing Date:	May 8, 1990
(Doc. No.:	Enz-13 (Div. 4)C2)
Serial No.:	428,087
Title:	"Hybridization Method For The Detection Of Genetic Material"
Inventors:	Dean Engelhardt, et al.
Filing Date:	October 27, 1989
(Doc. No.:	Enz-15(Div. 1))
Serial No.:	590,548
Title:	"In Vivo Labelling of Polynucleotide Sequences"
Inventors:	Jannis Stavrianopoulos, et al.
Filing Date:	September 27, 1990
(Doc. No.:	Enz-16(C) (Div. 1))
Serial No.:	502,199
Title:	"Method For Detecting An Analyte Moiety By Means of Signal Localization"
Inventor:	Elazar Rabbani
Filing Date:	March 28, 1990
(Doc. No.:	Enz-24(CIP)/25 C1)
Serial No.:	501,643
Title:	"Method For Detecting An Analyte Moiety By Means of Signal Localization"
Inventor:	Elazar Rabbani
Filing Date:	March 29, 1990
(Doc. No.:	Enz-24(CIP)/25 Div.1)
Serial No.:	394,284
Title:	"Novel One Step Method and Polynucleotide Compounds For Hybridizing to Target Polynucleotides"
Inventors:	Jannis Stavrianopoulos, et al.
Filing Date:	August 15, 1989
(Doc. No.:	Enz-26(C))

Serial No.: 479,327  
Title: "Nucleotide Sequence Composition And Method For Detection of Neisseria Gonorrhoea And Method For Screening For A Nucleotide Sequence That Is Specific For A Genetically Distinct Group"  
Inventors: Andrew Lo, et al.  
Filing Date: February 13, 1990  
(Doc. No.: Enz-27(C))

Serial No.: 582,830  
Title: "Polynucleotide Probes And A Method For Their Preparation"  
Inventors: David Mao, et al.  
Filing Date: September 13, 1990  
(Doc. No.: Enz-29(C))

Serial No.: 509,110  
Title: "Polynucleotide Composition and Method"  
Inventors: Huey-Lang Yang, et al.  
Filing Date: April 13, 1990  
(Doc. No.: Enz-31(C))

Serial No.: 443,812  
Title: "Inhibition of Self-Quenching In Specific Binding Assay"  
Inventor: Stanley Kline  
Filing Date: November 29, 1989  
(Doc. No.: Enz-32(C))

Serial No.: 160,607  
Title: "End-Labeled Nucleotide Probe"  
Inventors: Christine L. Brakel, et al.  
Filing Date: February 26, 1988  
(Doc. No.: Enz-34)

Serial No.: 194,702  
Title: "Device With Gradient-Regulated Localized Signal"  
Inventors: Elazar Rabbani, et al.  
Filing Date: May 17, 1988  
(Doc. No.: Enz-35)

Serial No.: 192,256  
Title: "Method For Sample Adherence To Test Substrate"  
Inventors: Huey-Lang Yang, et al.  
Filing Date: May 10, 1988  
(Doc. No.: Enz-36)

Serial No.: 625,584  
Title: "Detection System For Visualizing Proteolysis Of Cellular Proteins"  
Inventor: Maurice Rosenstrauss  
Filing Date: December 10, 1990  
(Doc. No.: Enz-37(C))

Serial No.: 304,748  
Title: "Time-Resolved Fluorometer"  
Inventor: Ian Hurley  
Filing Date: January 31, 1989  
(Doc. No.: Enz-38)

Serial No.: 314,995  
Title: "Energy Transfer Hybridization Assay Using Intercalators and Lanthanide Metals"  
Inventors: Elazar Rabbani, et al.  
Filing Date: February 24, 1989  
(Doc. No.: Enz-39)

Serial No.: 342,196  
Title: "Non-Radioactive In Situ Hybridization Assay"  
Inventors: Joanne Spadaro, et al.  
Filing Date: April 21, 1989  
(Doc. No.: Enz-40)

Serial No.: 316,385  
Title: "Dual-Probe Energy Transfer Hybridization Assay"  
Inventors: Ian Hurley, et al.  
Filing Date: February 27, 1989  
(Doc. No.: Enz-41)

Serial No.: 459,030  
Title: "Amplification Capture Assay"  
Inventors: Christine Brakel, et al.  
Filing Date: December 29, 1989  
(Doc. No.: Enz-43)

Serial No.: 633,730  
Title: "Method for Detecting A Target Polynucleotide In A Sample Using A Background Reducing Reagent, And Composition And Kit Comprising Such A Reagent"  
Inventor: Jannis G. Stavrianopoulos  
Filing Date: December 24, 1990  
(Doc. No.: Enz-44)

and in and to said applications for Letters Patent and all divisional, continuing, substitute, renewal, reissue, and all other applications for Letters Patent which have been or shall be filed in the United States and all foreign countries on any of said improvements; and in and to all original and reissued patents which have been or shall be issued in the United States and all foreign countries on said improvements:

Hereby also sells, assigns and transfers to: Enzo Diagnostics, Inc., a corporation of the State of New York, having a place of business at 40 Oak Drive, Syosset, NY 11791, its successors, assigns and legal representatives, the entire right, title and interest for the United States and all foreign countries, in and to any and all improvements which are disclosed in the following United States Letters Patent:

Patent No.: 4,994,373  
Title: "Method And Structures Employing Chemically-Labelled Polynucleotide Probes"  
Inventors: Jannis G. Stavrianopoulos, et al.  
Issue Date: February 19, 1991  
(Doc. No.: Enz-7 (CIP)C)

Patent No.: 4,772,548  
Title: "Radioisotopic assay Using Isotope Transfer To Chelator-Target Recognition Molecule Conjugate"  
Inventor: Jannis G. Stavrianopoulos  
Issue Date: September 20, 1988  
(Doc. No.: Enz-12 (Div. 2))

Patent No.: 4,707,440  
Title: "Nucleic Acid Hybridization Assay And Detectable Molecules Useful In Such Assay"  
Inventor: Jannis G. Stavrianopoulos  
Issue Date: November 17, 1987  
(Doc. No.: Enz-13)

Enzo Diagnostics, Inc.



Patent No.:	4,843,122
Title:	"Detectable Molecules, Method Of Preparation And Use"
Inventor:	Jannis G. Stravrianopoulos
Issue Date:	June 27, 1989
(Doc. No.:	Enz-13 (Div. 1))
Patent No.:	4,943,523
Title:	"Detectable Molecules, Method Of Preparation And Use"
Inventor:	Jannis G. Stravrianopoulos
Issue Date:	July 24, 1990
(Doc. No.:	Enz-13 (Div. 2))
Patent No.:	4,952,685
Title:	"Detectable Molecules, Method Of Preparation And Use"
Inventor:	Jannis G. Stravrianopoulos
Issue Date:	August 28, 1990
(Doc. No.:	Enz-13 (Div. 4))
Patent No.:	5,002,885
Title:	"Detectable Molecules, Method Of Preparation And Use"
Inventor:	Jannis G. Stravrianopoulos
Issue Date:	March 26, 1991
(Doc. No.:	Enz-13 (Div. 4)C1)
Patent No.:	4,849,505
Title:	"Detectable Molecules, Method Of Preparation And Use"
Inventor:	Jannis G. Stravrianopoulos
Issue Date:	July 18, 1989
(Doc. No.:	Enz-13 (Div. 5))
Patent No.:	4,889,798
Title:	"Heterologous System For The Detection of Chemically Labeled DNA and Other Biological Materials Providing A Receptor Or Target Molety Thereon"
Inventor:	Elazar Rabbani
Issue Date:	December 26, 1989
(Doc. No.:	Enz-14(C))

Enzo Diagnostics, Inc.

Patent No.: 4,894,325  
Title: "Hybridization Method For The  
Detection Of Genetic Material"  
Inventors: Dean L. Engelhardt, et al.  
Issue Date: January 16, 1990  
(Doc. No.: Enz-15(P)C)

Patent No.: 4,987,065  
Title: "In Vivo Labelling of Polynucleotide Sequences"  
Inventors: Jannis G. Stravrianopoulos, et al.  
Issue Date: January 22, 1991  
(Doc. No.: Enz-16(C))

Patent No.: 4,755,458  
Title: "Composition And Method For The  
Detection Of The Presence Of A  
Polynucleotide Sequence Of Interest"  
Inventors: Elazar Rabbani, et al.  
Issue Date: July 5, 1988  
(Doc. No.: Enz-18)

Patent No.: 4,746,604  
Title: "Specific Binding Assays Utilizing A  
Viable Cell As A Label"  
Inventor: Solomon Mowshowitz  
Issue Date: May 24, 1988  
(Doc. No.: Enz-21)

Patent No.: 4,900,659  
Title: "Nucleotide Sequence Composition  
And Method For Detection Of  
Neisseria Gonorrhoeae And Method  
For Screening For A Nucleotide  
Sequence That Is Specific For A  
Genetically Distinct Group"  
Inventors: Andrew Lo, et al.  
Issue Date: February 13, 1990  
(Doc. No.: Enz-27)

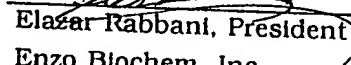
Patent No.: 4,868,103  
Title: "Analyte Detection By Means Of  
Energy Transfer"  
Inventors: Jannis G. Stravrianopoulos, et al.  
Issue Date: September 19, 1989  
(Doc. No.: Enz-28)

and in and to said Letters Patent and all divisional, continuing,  
substitute, renewal, reissue, and all other applications for Letters  
Enzo Diagnostics, Inc.

Patent which have been or shall be filed in the United States and all foreign countries on any of said improvements; and in and to all original and reissued patents which have been or shall be issued in the United States and all foreign countries on said improvements;

Agrees that said Assignee may apply for and receive Letters Patent for said improvements in its own name; and that, when requested, without charge to but at the expense of said Assignee, its successors, assigns and legal representatives, to carry out in good faith the intent and purpose of this assignment, the undersigned will execute all divisional, continuing, substitute, renewal, reissue, and all other patent applications on any and all said improvements; execute all rightful oaths, assignments, powers of attorney and other papers, communicate to said Assignee, its successors, assigns, and representatives, all facts known to the undersigned relating to said improvements and the history thereof; and generally do everything possible which said Assignee, its successors, assigns or representatives shall consider desirable for aiding in securing and maintaining proper patent protection for said improvements and for vesting title to said improvements and all applications for Letters Patent and all patents on said improvements, in said Assignee, its successors, assigns and legal representatives; and

Covenant with said Assignee, its successors, assigns and legal representatives that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by the undersigned, and that full right to convey the same as herein expressed is possessed by the undersigned.

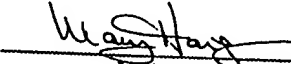
  
Elazar Rabbani, President  
Enzo Blochem, Inc.

#### Acknowledgment

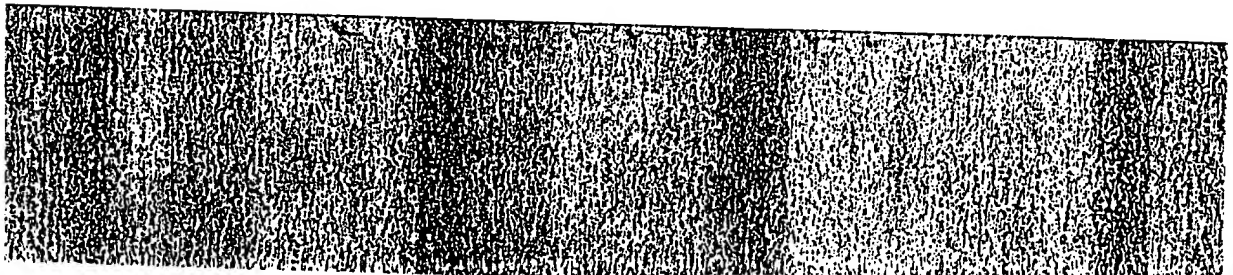
State of NEW YORK }  
County of NEW YORK } ss:

On this 4<sup>th</sup> day of April, 1991 personally appeared before me ELAZAR RABBANI to me known, and known by me to be the same person described in and who executed the foregoing instrument, and acknowledged that he executed the same, of his own free will and for the purposes set forth.

MARY HAIG  
Notary Public, State of New York  
No. 41-1628625  
Qualified in Queens County  
Certificate Filed in New York County  
Commission Expires October 31, 1991

  
Notary Public

Enzo Diagnostics, Inc.



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s): Dean Engelhardt et al.

Serial No.: 07/532,461

Group Art Unit: 1803

Filing Date: May 31, 1990

Examiner:  
John W. Rollins, Ph.D

For:

PHOSPHATE - MOIETY LABELED DETECTABLE NUCLEOTIDES

Honorable Commissioner of Patents and Trademarks  
Washington, D.C. 20231


**COPY**

SUBSTITUTE POWER OF ATTORNEY

Dear Sir:

Enzo Diagnostics, Inc., a corporation of the State of New York, having its principal place of business at 40 Oak Drive, Syosset, New York, 11791, the owner of the entire right, title and interest in and to the above-identified application and the invention disclosed and/or claimed therein, hereby revokes any and all powers of attorney previously granted herein and appoints as principal attorney, Ronald C. Fedus (Reg. No. 32,567) with full power of substitution and revocation, to prosecute this application, to make alterations and amendments herein, to receive the patent, to transact all business in the Patent and Trademark Office connected therewith and to file any International Applications which are based thereon under the provisions of the Patent Cooperation Treaty.

Please address all communications to:

EXPRESS MAIL CERTIFICATE	
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Deposit Date	APRIL 9, 1993
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 Ronald C. Fedus Reg. No. 32,567	APRIL 9, 1993 Date

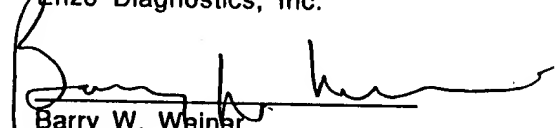
Ronald C. Fedus, Patent Counsel  
Enzo Biochem, Inc.  
575 Fifth Avenue (18th Floor)  
New York, New York 10017

and direct all telephone calls regarding this application to Ronald C. Fedus at telephone no. (212) 856-0876.

NOVEMBER 9, 1992  
Date

Enz-5 (D6)

Enzo Diagnostics, Inc.

  
Barry W. Weiner  
Executive Vice-President



Patent and Trademark Office  
ASSISTANT SECRETARY AND COMMISSIONER  
OF PATENTS AND TRADEMARKS  
Washington, D.C. 20231

TO: ENZO DIAGNOSTICS, INC.  
40 OAK DRIVE  
SYOSSET, NY 11791

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SEP 05 1991

ELAINE P. BRENNER

2P3  
9/5/91

UNITED STATES PATENT AND TRADEMARK OFFICE  
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE U.S. PATENT AND TRADEMARK OFFICE ON THE REEL AND FRAME NUMBER REFERENCED BELOW. A DIGEST OF THE DOCUMENT HAS ALSO BEEN MADE AND APPEARS IN THE OFFICE'S RECORDS AS SHOWN:

ASSIGNOR: 001 ENZO BIOCHEM, INC., A CORP. OF NY DOC DATE: 04/04/91

RECORDATION DATE: 04/17/91 NUMBER OF PAGES 010 REEL/FRAME 5673/0274

DIGEST: ASSIGNMENT OF ASSIGNORS INTEREST

ASSIGNEE: 501 ENZO DIAGNOSTICS, INC., 40 OAK DRIVE, SYOSSET, NY 11791, A CORP. OF NY

SERIAL NUMBER	6-575396	FILING DATE	01/30/84
PATENT NUMBER	4,707,440	ISSUE DATE	11/17/87
SERIAL NUMBER	7-043568	FILING DATE	04/28/87
PATENT NUMBER	4,843,122	ISSUE DATE	06/27/89
SERIAL NUMBER	7-304748	FILING DATE	01/31/89
PATENT NUMBER		ISSUE DATE	00/00/00
SERIAL NUMBER	7-314995	FILING DATE	02/24/89
PATENT NUMBER		ISSUE DATE	00/00/00
SERIAL NUMBER	7-342196	FILING DATE	04/21/89
PATENT NUMBER		ISSUE DATE	00/00/00
SERIAL NUMBER	7-316385	FILING DATE	02/27/89
PATENT NUMBER		ISSUE DATE	00/00/00
SERIAL NUMBER	7-459030	FILING DATE	12/29/89
PATENT NUMBER		ISSUE DATE	00/00/00
SERIAL NUMBER	7-633730	FILING DATE	12/24/90

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Ronald C. Fedus Reg. No. 32567	APRIL 9, 1993 Date



PATENT NUMBER	ISSUE DATE
SERIAL NUMBER 7-385986	FILING DATE 07/20/89
PATENT NUMBER 4,994,373	ISSUE DATE 02/19/91
SERIAL NUMBER 7-006819	FILING DATE 01/23/87
PATENT NUMBER 4,772,548	ISSUE DATE 09/20/88
SERIAL NUMBER 7-043670	FILING DATE 04/28/87
PATENT NUMBER 4,943,523	ISSUE DATE 07/24/90
SERIAL NUMBER 7-043572	FILING DATE 04/28/87
PATENT NUMBER 4,849,505	ISSUE DATE 07/18/89
SERIAL NUMBER 7-015563	FILING DATE 02/13/87
PATENT NUMBER 4,889,798	ISSUE DATE 12/26/89
SERIAL NUMBER 7-005327	FILING DATE 01/15/87
PATENT NUMBER 4,894,325	ISSUE DATE 01/16/90
SERIAL NUMBER 7-302887	FILING DATE 01/30/89
PATENT NUMBER 4,897,065	ISSUE DATE 01/30/90
SERIAL NUMBER 6-646171	FILING DATE 08/30/84
PATENT NUMBER 4,755,458	ISSUE DATE 07/05/88
SERIAL NUMBER 6-738135	FILING DATE 05/24/85
PATENT NUMBER 4,746,604	ISSUE DATE 05/24/88
SERIAL NUMBER 6-823921	FILING DATE 01/30/86
PATENT NUMBER 4,900,659	ISSUE DATE 02/13/90
SERIAL NUMBER 6-831250	FILING DATE 02/19/86
PATENT NUMBER 4,868,103	ISSUE DATE 09/19/89
SERIAL NUMBER 7-194702	FILING DATE 05/17/88
PATENT NUMBER	ISSUE DATE 00/00/00
SERIAL NUMBER 7-192256	FILING DATE 05/10/88
PATENT NUMBER 5,024,933	ISSUE DATE 06/18/91
SERIAL NUMBER 7-625584	FILING DATE 12/10/90
PATENT NUMBER	ISSUE DATE 00/00/00
SERIAL NUMBER 7-140980	FILING DATE 01/05/88
PATENT NUMBER	ISSUE DATE 00/00/00
SERIAL NUMBER 7-539279	FILING DATE 06/15/90
PATENT NUMBER	ISSUE DATE 00/00/00
SERIAL NUMBER 7-520682	FILING DATE 05/08/90
PATENT NUMBER	ISSUE DATE 00/00/00

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ELAINE P. BRENNER



SERIAL NUMBER	7-531953	FILING DATE	06/01/90
PATENT NUMBER		ISSUE DATE	00/00/00
SERIAL NUMBER	7-532461	FILING DATE	05/31/90
PATENT NUMBER		ISSUE DATE	00/00/00
SERIAL NUMBER	7-567039	FILING DATE	08/13/90
PATENT NUMBER		ISSUE DATE	00/00/00
SERIAL NUMBER	7-532704	FILING DATE	06/04/90
PATENT NUMBER		ISSUE DATE	00/00/00
SERIAL NUMBER	7-548348	FILING DATE	07/02/90
PATENT NUMBER		ISSUE DATE	00/00/00
- SERIAL NUMBER	7-607347	FILING DATE	10/30/90
PATENT NUMBER		ISSUE DATE	00/00/00
SERIAL NUMBER	7-120205	FILING DATE	11/05/87
PATENT NUMBER		ISSUE DATE	00/00/00
SERIAL NUMBER	7-509110	FILING DATE	04/13/90
PATENT NUMBER		ISSUE DATE	00/00/00
SERIAL NUMBER	7-443812	FILING DATE	11/29/89
PATENT NUMBER		ISSUE DATE	00/00/00
SERIAL NUMBER	7-160607	FILING DATE	02/26/88
PATENT NUMBER		ISSUE DATE	00/00/00
SERIAL NUMBER	7-394284	FILING DATE	08/15/89
PATENT NUMBER		ISSUE DATE	00/00/00
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- SERIAL NUMBER	7-582830	FILING DATE	09/13/90
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